Purchasing Receipts

Print

Dart Hawkesbury 1270 Aberdeen St Hawkesbury, ON K6A 1K7 Canada Tel (613) 632-5200 Fax 613 632-5246

11/22/2018

	Supplier Name	\$8.94 McMaster- Carr Supply Co.	87.13 McMaster- Carr Supply Co,	\$94.84 McMaster- Carr Supply Co,	\$246.88 McMaster- Carr Supply	
	Total	\$8.94	\$7.13	\$94.84	\$246.88	\$357.79
	Past Due					1
	Aging Days	-	-	-	-	
	Price/Unit	\$ 1.49 / ft	\$1.19/ft	\$23.71/#	\$ 15.43 / ft	
	Receive Date	11/21/2018 \$ 1.49 / ft	Stock 11/21/2018 \$ 1.19 / ft	Stock 11/21/2018 \$ 23.71 / ft	Stock 11/21/2018 \$ 15,43 / ft	
	Status	Stock	Stock	Stock	Stock	
	Container No	S130461	S130462	S130463	\$130464	
	Received Accounting Container Status Receive Price/Unit Aging Past Quantity Job No No					
	Received Quantity	9	σ	4	16	32
	Due Date	6 11/19/2018	11/20/2018			
	Order	9		4	16	32
	Description Part Project Equipment Order No No Aty					Total:
	t Project					
For	No No	Ε	D	Q		
	Description	Dowel Pin Ø6mm x 40mm	Tool Steel Round Bar 0.250 dia.: Material: AISI 01 TOOL STEEL ROUND BAR DIN 1.2510 or B.S. BO 1 or SAE J437 or SAE J438 or UNS T31501 or ASTM A681	MDELRINR2.25 color: White: MATERIAL: DELRIN II 150E OR ACETRON GP ACETAL	UHMW Bar, Black, 3"" Wide, 3/4"" Thick, 4 ft. long	
	Purchased Item	88625K65	MT-01-R0,250	MDELRINR2.250v MDELRINR2.250 color: White: MATERIAL: DELRIN II 150E OR ACETRON GP ACETRON GP ACETAL	8702K566	
	Terms	2% 10 Net 30				
2	No S	-				
Line	Item No	10	7	16	17	
	PO No Supplier Item No No No	MCM001- VU		<u> </u>		
	PO No	P0041721 MCM001-				

Plex 11/22/2018 10:11 AM dart. Tollis. Andrew



Dart Aerospace Ltd. 1270 Aberdeen St Hawkesbury, ON K6A 1K7 Canada

PURCHASE ORDER PO041721

Tel (613) 632-5200

Supplier: MCM001-VU

McMaster-Carr Supply Co,

P.O. Box 7690 Chicago, IL 60680-7690 USA

Phone: 330 995 5500

Fax: 330 995 9600

PO Date: Due Date:

PO No:

PO041721 11/14/18

11/19/18

Purchase Order

Revision: **Revision Date:**

Ship-To Contact:

Lavoie, ChantalPhone:

clavoie@dartaero.com

Ship To:

1270 Aberdeen Street

Hawkesbury

ON

K6A 1K7 Canada

Phone: 613-632-5200

Via:

Ground

Pymt Terms:

2% 10 Net 30

Freight Terms: **Special Comments:**

Line Item	Job	Part	Supplier Part No	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (USD)	Extended Price
1		9435K81	5/pk	302 Stainless Steel Corrosion- Resistant Compression Springs, 0.813" Long, 0.36" OD, 0.276" ID	Firmed		11/19/18	5 Ea				
2	THE REAL PROPERTY AND ADDRESS OF THE PARTY AND	91251A371	5/pk	Black-Oxide Alloy Steel Socket Head Screw, 5/16"-24 Thread Size, 4" Long	Firmed	-	11/19/18	5 Ea	0 Ea	5 Ea	\$1.874/Ea	\$9.37
3	The state of the s	91166A290	100/pk	Washer M12 - Steel	Firmed		11/19/18	100 Ea	0 Ea	100 Ea	\$0.0695/Ea	\$6.95
4		91415A125	25/pk	Nut M12 X 1.5	Firmed	-	11/19/18	100 Ea	0 Ea	100 Ea	\$0.352/Ea	\$35.20
5	t t a a a a a a a a a a a a a a a a a a	4053K751	4053K15	Pressure Gauge, 0-300 Psi	Firmed	-	11/19/18	12 Ea	0 Ea	12 Ea	\$30.67/Ea	\$368.04
6		2214A5	1/pk	Magnetic Base	Firmed	-	11/19/18	12 Ea	0 Ea	12 Ea	\$33.73/Ea	\$404.76
7		16823	85195A999	Giant Swiss Arm w/o Mag. Base	Firmed	-	11/22/18	3 Ea	0 Ea	3 Ea	\$435.76/Ea	\$1,307.28
8		50715K179		Female Pipe Adapter SS 37 Degree Flared Fitting for Stainless Steel Tubing 1/pack	Firmed	The second seconds of the second seco	11/19/18	4 Ea	0 Ea	4 Ea	\$25.36/Ea	\$101.44
9		51495K116		COUPLING 1/2" NCKL PLTD BRASS	Firmed	-	11/19/18	6 Ea	0 Ea	6 Ea	\$7.78/Ea	\$46.68



Dart Aerospace Ltd. 1270 Aberdeen St Hawkesbury, ON K6A 1K7 Canada

Tel (613) 632-5200

PURCHASE ORDER PO041721

					Items							
Line Item	Job	Part	Supplier Part No	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (USD)	Extende Price
10/ Ar		88625K65	3 ft long	Dowel Pin Ø6mm x 40mm	Firmed	-	11/19/18	6 ft	6 Er	6 ft	\$1.49/ft {18/11/2.	1
11/3	e e v v e v vý ma svá meroma s sají ma klumina matem	8662A61	1/pk	Dial Indicator with Certificate 0" to 1.000" Range X 0.001" Increments receive ea	Firmed		11/19/18	12 Ea	0 Ea	12 Ea	\$96.43/Ea	\$1,157.1
AT		MT-01-R0.250	8893K204 6 ft long	Tool Steel Round Bar 0.250 dia. : Material: AISI 01 TOOL STEEL ROUND BAR DIN 1.2510 or B.S. BO 1 or SAE J437 or SAE J438 or UNS T31501 or ASTM A681	Firmed		11/19/18	6 ft	6 Ft		\$1.188333/ft	
13	186327	6718K52		Fitting, Quick Disconnect D4182-1	Firmed	-	11/19/18	12 pcs	0 pcs	12 pcs	\$5.64/pcs	\$67.6
e Item Note	AS PER	DWG D4182 REV. E	3	MALE MAN THE TRANSPORT OF STREET STREET STREET	1				are a service and a decision of the service of the			man cara men same stama
14	186331	91525A120		washer D3456-1 : AS PER DWG D3456 REV.A	Firmed	-	11/19/18	100 pcs	0 pcs	100 pcs	\$0.232/pcs	\$23.20
15	186332	92311A599		Set Screw D2712 AS PER DWG D2712 REV. B	Firmed	-	11/19/18	200 pcs	0 pcs	200 pcs	\$0.22/pcs	\$44.0
16 A	1	MDELRINR2,250W	8572K31 4 ft	MDELRINR2.250 color: White : MATERIAL: DELRIN II 150E OR ACETRON GP ACETAL receive ft	Firmed	-	11/19/18	4 ft	.0		\$23.71/ft /8/((/))	\$94.84
17 A		8702K566	4 ft long	UHMW Bar, Black, 3" Wide, 3/4" Thick, 4 ft. long	Firmed	-	11/19/18	16 ft	0 ft 1644	1 -	\$15.43/ft (<i>B/((/))</i>)	\$246.88
e Item Note	4 pcs of	The second secon										
18		98017A615	500/pk	Flat Washer #6 Ss	Firmed	-	11/19/18	500 Ea	0 Ea	500 Ea	\$0.01924/Ea	\$9.62
Charles and the second						m				-	Frand Total:	\$2 04C E



Dart Aerospace Ltd. 1270 Aberdeen St Hawkesbury, ON K6A 1K7 Canada

PURCHASE ORDER PO041721

Tel (613) 632-5200

Order Notes

Procurement Quality Clauses

A005 RIGHT OF ENTRY

A016 PERSONNEL QUALIFICATION

A026 CERTIFICATION OF MATERIAL CONFORMANCE

A032 DOCUMENT SPECIAL REQUIREMENTS

A033 STATEMENT OF CONFORMITY/TEST RECORDS FOR NAS, AN and MS FASTENERS

A040 NOTIFICATION OF QUALITY ESCAPE

A041 QUALITY MANAGEMENT SYSTEM

A042 DART NOTIFICATION BY SUPPLIER

A043 RETENTION OF QUALITY DOCUMENTS

A048 COUNTERFEIT PARTS AVOIDANCE, DETECTION, MITIGATION AND DISPOSITION PROGRAM

A049 SUPPLIER AWARENESS

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Plex 11/14/18 12:58 PM dart.lavoie.chantal



Packing List

200 Aŭrora Industrial Pkwy Aurora OH 44202-8087 330-995-5500 cle.sales@mcmaster.com Dart Aerospace Ltd 1270 Aberdeen St Hawkesbury ON K6A 1K7 Canada Purchase Order PO041721

Order Placed By Chantal Lavoie

Page 1 of 1 11/15/2018

McMaster-Carr Number 4124925-01

Line	e	Product	Ordered Sh	nipped
10	88625K65	Tight-Tolerance Multipurpose O1 Tool Steel Rod, 6 mm Diameter, 3 Feet Long	2 Each	2
12	8893K204	Tight-Tolerance Multipurpose O1 Tool Steel Rod, 0.250" Diameter, 6 Feet Long	1 Each	DAS 61
16	8572K31	White Delrin® Acetal Resin Rod, 2-1/4" Diameter, 4' Length	4 Feet	9-89
17	8702K566	UHMW Bar, Black, 3" Wide, 3/4" Thick	16 Feet	(16)
	#*			
Exp	ected to sh	ip		
7	85195A999	Giant Swiss Arm Only, 19" Total Height #16823	3 Each	3 Nov 26-30
11	8662A61	Combination Dial Plunger-Style Variance Indicator with NIST Certificate & 0" to 1" Measuring Range	12 Each	10 Nov 26-Dec 10

McMASTER-CARR.

Tight-Tolerance Multipurpose O1 Tool Steel Rod 6 mm Diameter, 3 Feet Long

\$6.48 Each 88625K65



Material O1 Tool Stee
Cross Section

Shape

Construction Solid
Appearance Plain
Diameter 6mm

Diameter -0.013mm to
Tolerance 0.013mm

Tolerance

Rating

Yield Strength 50,000 psi

Temper Rating

Softened (Annealed)

Tight

Hardness

Rockwell B90

Hardness

Rating

Medium

Yes

Heat

Treatable

Maximum Hardness after Heat Treatment Rockwell C62

Mechanical

Finish

Precision Ground

Temperature

Range

Not Rated

Specifications

Met

ASTM A681

Straightness

3

Not Rated

Tolerance Density

0.28 lbs./cu. in.

Coefficient of

 7.1×10^{-6}

Thermal

Expansion

25%

Elongation Material

Composition

94.79-96.95%

Iron Carbon

0.85-1.05%

Chromium

0.40-0.70%

Manganese 1.00-1.40% Nitrogen 0.40-0.60% Phosphorus 0-0.030% Silicon 0-0.50% Sulfur 0-0.030% Tungsten 0.40-0.60% Vanadium 0-0.30% Length 3 ft.

Additional

Guidelines for Heat Specifications Treating Tool Stee

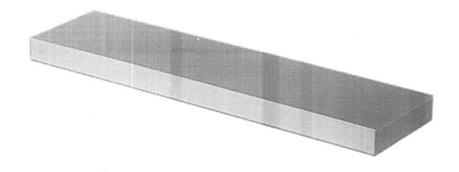
RoHS Compliant

These precision-ground rods have a tight diameter tolerance. Commonly used for dies, punches, and gauges. O1 tool steel is an oil-hardening material that resists wear and abrasion.

McMASTER-CARR _•

UHMW Bar Black, 3" Wide, 3/4" Thick

In stock \$15.43 per ft. 8702K566



Material	UHMW Plastic
Cross Section	Rectangle
Shape	nectarigle
Construction	Solid
Texture	Smooth
Color	Black
Clarity	Opaque
Thickness	3/4"
Thickness	-0.070" to
Tolerance	+0.07011
Tolerance Rating	Standard
Width	3"
Width Tolerance	-1/16" to +1/16'
Length	1 ft., 2 ft., 3 ft., 4
Length	ft., 5 ft.
Length Tolerance	-1/8" to +1/8"
Backing Type	Plain
Hardness	Durometer 700
Hardness Rating	Medium
For Use Outdoors	No
Temperature	-20° to 180° F
Range	-20 to 160 F
Impact Strength	16.80 ftlbs./in.
Impact Strength	Excellent
Rating	LYCENETIE
Tensile Strength	2.400 psi
Tensile Strength	Poor
Rating	1 001
Specifications Met	ASTM D4020
Density	0.034 lbs./cu. n
Coefficient of	0.19
Friction	0.19
Dielectric Strength	450 V/MiI
Water Absorption	0.01%
Coefficient of Thermal Expansion	1.4 × 10 ⁻⁴ in./in./ °F
RoHS	Compliant

Commonly used as machine guards and as liners in chutes and hoppers. These sheets, bars, and strips have a slippery surface and excellent abrasion, wear, and impact resistance.

McMASTER-CARR.

Tight-Tolerance Multipurpose O1 Tool Steel Rod 0.250" Diameter

8893K204



Material O1 Tool Steel Cross Section Round Shape Construction Solid Appearance Plain Diameter 0.25" Diameter -0.0005" to 0.0005 Tolerance Tolerance Tight Rating Yield Strength 50,000 psi Temper Softened (Annealed) Rating Hardness Rockwell B90 Hardness Medium Rating Heat Yes Treatable Maximum Rockwell C65 Hardness after Heat Treatment Mechanical **Precision Ground** Finish Temperature Not Rated Range Specifications ASTM A681 Met Straightness Not Rated Tolerance Density 0.28 lbs./cu. in. 7.1×10^{-6} Coefficient of Thermal Expansion Elongation 25% Material Composition 94.79-96.95% Iron

Carbon

Chromium

0.85-1.05%

0.40-0.70%

Manganese 1.00-1.40% Nitrogen 0.40-0.60% Phosphorus 0-0.030% Silicon 0-0.50% Sulfur 0-0.030% Tungsten 0.40-0.60% Vanadium 0-0.30% Length 3 ft., 6 ft.

Additional

Guidelines for Heal

Specifications

Treating Tool Steel

RoHS

Compliant

These precision-ground rods have a tight diameter tolerance. Commonly used for dies, punches, and gauges. Of tool steel is an oil-hardening material that resists wear and abrasion.

BY APPROVED VM V/M AISI 01 TOOL STEEL ROUND BAR MT-01-R 17.08.09 DATE DESCRIPTION EN 17-1.49 REV. MT-01-R [D.DDD] WHERE "D.DDD" = DIAMETER IN INCHES EG. 5/8" ROUND BAR = MT-01-R0.625 SPECIFICATION CONTROL DRAWING AISI O1 TOOL STEEL ROUND BAR DIN 1.2510 or B.S. BO 1 or SAE J437 or SAE J438. or UNS T31501 or ASTM A681 PURCHASE MATERIAL: SPECIFICATION: PART NUMBER:

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MATERIAL RECEIPT INSPECTION FORM

MATERIAL: MT-0	0.25	_		PO / BATCH	1 NO.: P004	1721/5130		
MATERIAL: <u>MT-D</u> DATE: <u>(8/11/</u>		_						
MATERIAL CERT REC'D: Ves		_	THICK	NESS ORDE	RED: 0-2	50"		
QUANTITY RECEIVED: 6H				70			IVED: 0-25	
QUANTITY INSPECTED: 6 Ft				-			RED:	
QUANTITY REJECTED:				-			IVED:	
QO/IIIII NESCOTES.				-	OHEET	OIZE NEOE		
DESCRIPTION	1	CR neck		1 10		COMMEN	TS	
	Y/	N)						
SURFACE DAMAGE		M						***************************************
CORRECT FINISH	(8)	N						
CORROSION	Y	M		I WALL TO JULY				
CORRECT GRAIN DIRECTION	Y							
ORRECT MATERIAL PER M-DRAWING	(4)	Ν	ASTN	1 A681				
CORRECT THICKNESS	8	N						
PHOTO REQUIRED	Y	D						
CORRECT REF # TO LINK CERT	8	N	PO041	721				
DRRECT MATERIAL IDENTFICATION		N	l					
CORRECT M# ON THE MATERIAL	(Y)	N						
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Υ	N						
DOES THIS REQUIRE AN EXTRUSION REPORT	Υ	N						
CUT SAMPLE PIECE			TERIAL A			A HARDNE	SS CHECK.	
			HRC	HRI	3	DUR A	DUR D	WEBSTER
YPE OF MATERIAL								
ZE OF TEST SAMPLE								
ARDNESS / DUROMETER READI	NG							
	+-	etere	located in	the Qualit	v Office			

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

QC 18 INSPECTION ENGINEERING SIGNOFF (if required)

INSPECTED BY: SIGNED OFF BY: DATE:

McMASTER-CARR.

White Delrin® Acetal Resin Rod 2-1/4" Diameter

In stock \$24.13 per ft. 8572K31



Material	Delrin® Acetal					
Material	Plastic					
Cross Section	Round					
Shape	nound					
Construction	Solid					
Texture	Smooth					
Color	White					
Clarity	Opaque					
Diameter	2 1/4"					
Diameter	0" to +0.030"					
Tolerance	0 10 +0.030					
Tolerance	Oversized					
Rating	Oversized					
Length	1 ft., 2 ft., 3 ft., 4 ft . 5					
20119111	ft.					
Hardness	Rockwell M90					
Hardness	Hard					
Rating	rara					
For Use	No					
Outdoors	, 10					
Temperature	-20° to 180° F					
Range	20 (0 100)					
Impact	1.00 ftlbs./in.					
Strength	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					
Impact						
Strength	Good					
Rating						
Tensile	9,000 psi					
Strength	5,600 poi					
Tensile						
Strength	Good					
Rating						
Specifications	ASTM D6100.					

NSF/ANSI Standard 51 for Food Contact. NSF/ANSI Standard 61 for Drinking Water

0.051 lbs./cu. in.

0.20

Met

Density

Coefficient of

Friction

Dielectric

435 V/mil

Strength

Water

0.30%

Absorption

Coefficient of

Thermal

 8.5×10^{-5} in./in./°F

Expansion

RoHS

Compliant

SPECIFICATION CONTROL DRAWING

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PURCHASE MATERIAL : (PELRIN) 150E OR ACETRON GP ACETAL

PART NUMBER:

M-DELRIN-R D.DDD | X | COLOR | B | CODE

WHERE D.DDD = DIAMETER IN INCHES $|\mathbf{A}| \times \mathbf{COLOR} = \mathbf{CODR}(\mathbf{W}^{-1} = \mathbf{WHID}, \mathbf{OMITED} = \mathbf{BLACK})$

EG. 1" BLACK ROUND BAR = M-DELRIN-R1.000 2" WHITE ROUND BAR = M-DELRIN-R2.000W

REV. B SHEET 1 OF 1 17.10.19 01.11.12 DART AEROSPACE LTD
HAWKESBURY, ONTARIO, CANADA
M-DELRIN-R
TITLE DATE SAD SAD DART AEROSPACI SAD HAWKESBURY, ONTARIO, C. RF M-DELRIN-R HS TITLE CP 47 DELRIN ROUND BAR UPDATE DRAWING TO CURRENT STANDARDS, ADD MATERIAL COLOR "WHITE", ADD REASON CIR. 110. ADD "ACETRON GP ACETAL" AS OPTION (REV. A1). DESIGN SAD DRAWN SAO CHECKED RF MFG. APPR. RA APPROVED HS DE APPR. CP J NEW ISSUE REV. 8 APPROVED

COPYRIGHT & 2001 BY DART AEROSPACE LTD
THE OCCUPANT BY FOURTH MODIFIED TO A RESIDENCE OF THE COMPLY OF THE COMPLY

2018 NAR 27 47 En 18-657

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MATERIAL RECEIPT INSPECTION FORM

MATERIAL: MOELR DATE: 18/11/2	11/1	22.	250w		PO / BATCH N	10.: <u>P0041</u> -	721/5130463		
MATERIAL CERT REC'D: VS QUANTITY RECEIVED: 41+ QUANTITY INSPECTED: QUANTITY REJECTED:		149		THICKNESS ORDERED: 2.250" THICKNESS RECEIVED: 2.250" SHEET SIZE ORDERED: - SHEET SIZE RECEIVED: -					
DESCRIPTION	(Ch	CR eck (N)			COMMENTS	S			
SURFACE DAMAGE	Y	(N)					-10		
CORRECT FINISH	(Y)	N		·/····					
CORROSION	Y	(V)							
CORRECT GRAIN DIRECTION	(Y)	N							
CORRECT MATERIAL PER M-DRAWING	W	N	DELRIN						
CORRECT THICKNESS	Y	N							
PHOTO REQUIRED	Y	(1)							
CORRECT REF # TO LINK CERT	Y	N	14514009						
CORRECT MATERIAL IDENTFICATION	8	N		255 Hr			30 00 00 00 00 00 00 00 00 00 00 00 00 0		
CORRECT M# ON THE MATERIAL	Y	N		TV Tall Collans					
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Υ	(1)							
DOES THIS REQUIRE AN EXTRUSION REPORT	Υ	N)							
CUT SAMPLE PIECE			TERIAL AND ORD RESUL			S CHECK.			
			HRC	HRB	DUR A	DUR D	WEBSTER		
TYPE OF MATERIAL						20 10 1000			
SIZE OF TEST SAMPLE						200			
HARDNESS / DUROMETER READIN	٧G								
	te	sters	located in the	Quality Offic	e	41			

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY:	SIGNED OFF BY:
DATE: (8/11/22	DATE:

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in